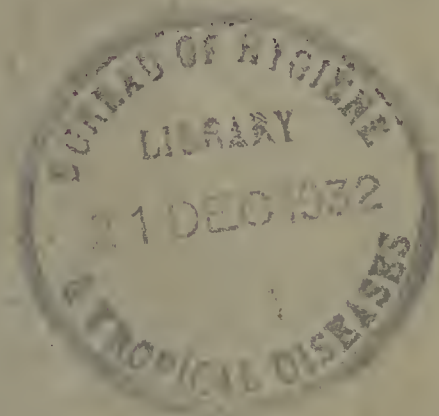


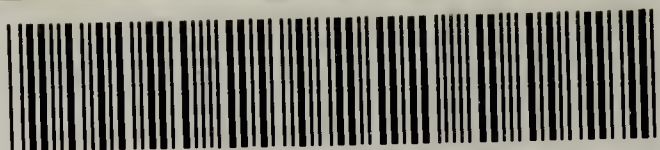
ANNUAL REPORT
ON THE
Working of the Ranchi Indian
Mental Hospital, Kanke, in
Bihar and Orissa for the year
1931



SUPERINTENDENT, GOVERNMENT PRINTING,
BIHAR AND ORISSA, PATNA.
1932.

[Price Rs. 1-4.]

LIPP MEY
+
for Rep
WM28
J14
B59R18
1931

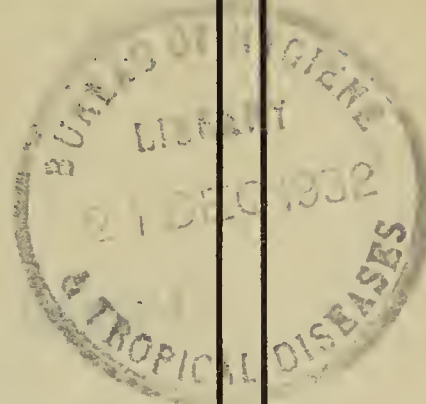


22501703047

ANNUAL REPORT
ON THE
Working of the Ranchi Indian
Mental Hospital, Kanke, in
Bihar and Orissa for the year
1931



SUPERINTENDENT, GOVERNMENT PRINTING,
BIHAR AND ORISSA, PATNA.
1932.



Priced Publications of the Government of Bihar and Orissa can be had from—

IN INDIA

**The Superintendent, Government Printing, Bihar and Orissa
Gulzarbagh P. O.**

- (1) MESSRS. THACKER SPINK & Co., Calcutta.
- (2) MESSRS. W. NEWMAN & Co., Calcutta.
- (3) MESSRS. S. K. LAHIRI & Co., College Street, Calcutta.
- (4) MESSRS. R. CAMBRAY & Co., 6 and 8-2, Hastings Street, Calcutta.
- (5) MESSRS. THOMPSON & Co., Madras.
- (6) MESSRS. D. B. TARAPOREVALA SONS & Co., 103, Meadow Street, Fort, Post Box No. 18, Bombay.
- (7) MESSRS. M. C. SIRKAR & SONS, 75, Harrison Road, Calcutta.
- (8) PROPRIETOR OF THE NEWAL KISHORE PRESS, Lucknow.
- (9) MESSRS. M. N. BURMAN & Co., Bankipore.
- (10) BABU RAM DAYAL AGARWALA, 184, Katra Road, Allahabad.
- (11) THE STANDARD LITERATURE Co., LTD., 13-I, Old Court House Street, Calcutta.
- (12) MANAGER OF THE INDIAN SCHOOL SUPPLY DEPÔT, 309, Bow Bazar Street, Calcutta.
- (13) MESSRS. BUTTERWORTH & Co., LTD., 6, Hastings Street, Calcutta.
- (14) MESSRS. RAM KRISHNA & SONS, Anarkali Street, Lahore.
- (15) THE OXFORD BOOK AND STATIONERY COMPANY, Delhi.
- (16) MESSRS. DAS BROTHERS, Nouzerkatra, Patna City.
- (17) THE BOOK COMPANY, 4/4(a), College Square, Calcutta.
- (18) MR. K. L. MATHUR, Guzri, Patna City.
- (19) MESSRS. RAGHUNATH FRASAD & SONS, Patna City.
- (20) THE GRANTHA MANDIR, Cuttack.

IN EUROPE AND AMERICA.

THE OFFICE OF THE HIGH COMMISSIONER FOR INDIA, Public Department, India House, Aldwych, London, W. C. 2.

No. $\frac{10466}{H-199-1932}$.

FROM

COL. L. COOK, C.I.E., M.B., B.S., F.R.C.S., I.M.S.,
INSPECTOR-GENERAL OF CIVIL HOSPITALS,
BIHAR AND ORISSA,

TO

THE SECRETARY TO THE GOVERNMENT OF
BIHAR AND ORISSA, LOCAL SELF-GOVERNMENT
DEPARTMENT.

Dated Patna, the 17th August 1932.

SUBJECT.—Annual report on the working of the Ranchi Indian Mental Hospital, Kanke,
for the year 1931.

SIR,

I HAVE the honour to submit, for the information of Government, the Superintendent's report on the Ranchi Indian Mental Hospital during the year 1931, together with the returns in the prescribed form.

The difficulty of overcrowding which is always an acute problem in institutions of this kind has been successfully overcome during the year under report.

Improvements by providing necessary buildings such as more isolation blocks are still delayed owing to financial difficulties, but one may record that a satisfactory state of efficiency is maintained under the able management of Major Dhunjibhoy.

I have the honour to be,

SIR,

Your most obedient servant,

L. COOK, COL., I.M.S.,
*Inspector-General of Civil Hospitals,
Bihar and Orissa.*

ANNUAL REPORT

ON THE

Working of the Ranchi Indian Mental Hospital, Kanke, in Bihar and Orissa for the year 1931.

1. *Administration*.—I held charge of the hospital throughout the year under review.

2. *Provinces served*.—During the period under report this hospital received patients from the provinces of Bengal and Bihar and Orissa.

3. *Accommodation*.—The accommodation of the hospital remained the same as in the previous years, viz., 1,014 for males 272 for females, total 1,286, which is apportioned in the proportion of three-fourths and one-fourth to Bengal and Bihar and Orissa, respectively.

The male section of the hospital remained overcrowded throughout the year under report and there was a great demand on the 50 emergency beds sanctioned by Government in 1929 with a view to lessen congestion. As in the former years carefully selected cases were only admitted to these emergency beds and harmless and easily manageable cases were refused admission on account of congestion. Owing to financial stringency none of the additional buildings included in the scheme of expansion of this hospital which has been administratively approved by Government could be taken up during the year under report.

4. *Patients*.—The following table shows the number of patients resident in the hospital on the 1st January 1931 and two previous years:—

Year.		Male.	Female.	Total.
1931	...	1,034	222	1,256
1930	...	1,049	215	1,264
1929	...	1,065	209	1,274

As in the previous years special efforts were made with the help of the Magistrates and Police throughout the year under report to discharge incurable harmless insane patients to the care of their relatives, as a result of which 8 patients were discharged. No trace of any friend or relative could be found in 7 cases in spite of vigorous enquiries instituted by the Magistrates concerned. In 8 cases the plea of inability on economic grounds to take charge of the patients put forward by the relatives was accepted by the enquiring Magistrates.

5. The maximum number of patients resident in the hospital on any one night during the year under report was 1,280 (1,051 males and 229 females) against 1,264 (1,049 males and 215 females) in the previous year.

6. *Total admissions.*—The admissions (including re-admissions) during the year under report were 132 (97 males and 35 females) against 99 (63 males and 36 females) in 1930 and 93 (64 males and 29 females) in 1929.

7. *Re-admissions.*—Ten patients were re-admitted (6 males and 4 females) during the year under report, against 1 male in 1930 and 7 (5 males and 2 females) in 1929.

Of the above 10 patients, 2 were criminal insanes and were re-admitted after trial and 8 were non-criminal patients of the Manic Depressive Psychosis type.

8. *Total population.*—The total population of the hospital during the year under report was 1,388 (1,131 males and 257 females) against 1,363 (1,112 males and 251 females) in 1930 and 1,367 (1,129 males and 238 females) in 1929.

9. *Daily average strength.*—The daily average strength of the hospital during the year under report was 1259.41 (1033.34 males and 226.07 females) as compared with 1258.13 (1040.05 males and 218.08 females) in 1930 and 1257.12 (1048.31 males and 208.81 females) in 1929.

10. (a) The ratio per cent of cases cured to the daily average strength was 4.53 (4.16 males and 6.19 females) in 1931 as compared with 4.69 (3.94 males and 8.71 females) in 1930 and 3.89 (3.24 males and 7.18 females) in 1929.

(b) The ratio per cent of cases cured to the total admission during the year under report was 14.39 (13.40 males and 17.14 females) as compared with 24.24 (23.49 males and 22.22 females) in 1930 and 18.60 (16.94 males and 22.22 females) in 1929.

During the year under review the ratio per cent of cases cured to daily average strength was practically the same as in 1930. During the year under report we had 132 admissions as compared with 99 in 1930 and 93 in 1929. The total discharges were 87 in 1931 as compared with 81 in 1930 and 78 in 1929.

In spite of this progressive increase in discharges our ratio per cent of cures to total admissions is low compared to 1930 and 1929. This is due to the fact that during the year under report we had a large number of admissions (132) and majority of them were chronic insanes who had been kept for a considerable time either at their homes or in jails for want of accommodation in this hospital. One, therefore, cannot expect cures from such chronic cases within a year, hence the low percentage of cures to total admissions.

11. Total duration of hospital life of patients discharged during the year under review and in the previous year.

Period.					1930.	1931.
Under 2 months	...	...	...	...	2	3
Over 2 months and under 4 months			...	...	18	13
Over 4 months and under 6 months			...	...	8	7
Over 6 months and under 8 months			...	...	10	5
Over 8 months and under 1 year			...	...	8	6
Over 1 year and under 3 years			...	...	14	10
Over 3 years and under 5 years			...	...	8	10
Over 5 years and under 10 years			...	...	7	17
Over 10 years and under 15 years			...	...	1	9
Over 15 years and under 20 years			...	...	2	5
Over 20 years	...	...	...	...	3	2
					81	87

12. *Death-rate.*—The percentage of deaths to daily average strength during the year under report and the two previous years is shown in the following table :—

Years.				Male.	Female.	Total.
1931	...	...	...	2.03	3.10	2.30
1930	...	...	...	2.02	2.29	2.07
1929	...	...	...	1.91	2.39	1.99

I am happy to be able to record that the death rates of this largest mental hospital of India is the lowest of all the Indian mental hospitals in India.

13. The chief causes of deaths among patients resident in the hospital during the year under report are shown in the following table :—

Causes of deaths.				Male.	Female.	Total.
Malaria	...	...	...	2	...	2
Pneumonia	...	...	...	2	...	2
Tuberculosis (lungs)	...	...	...	2	...	2
Diabetes	...	...	...	1	...	1
All other general diseases	...	...	...	7	5	12
Diseases of nervous system of which pathological basis is not known.	...	...	...	1	...	1
Diseases of the circulatory system	...	...	...	...	1	1
Diseases of respiratory system	...	...	...	1	...	1
All other diseases of digestive system.	...	...	...	3	1	4
Acute or chronic nephritis	...	...	...	2	...	2
Injury, general or local	...	...	...	1	...	1
Total	...	...	...	22	7	29

14. Duration of hospital life of those who died during the year under report is shown in the annexed table :—

Period.	Male.	Female.	Total.
Under 6 months	3	2	5
Over 6 months and under one year.	2	...	2
Over 1 year and under 2 years ...	...	...	...
Over 2 years and under 3 years ...	1	...	1
Over 3 years and under 5 years ...	...	1	1
Over 5 years and under 7 years ...	2	3	5
Over 7 years and under 10 years ...	3	...	3
Over 10 years and under 15 years.	1	...	1
Over 15 years and under 20 years.	5	...	5
Over 20 years and under 25 years.	2	...	2
Over 25 years and under 30 years.	3	...	3
Over 30 years and under 35 years.	...	...	...
Over 35 years and under 45 years.	...	1	1
Total ...	22	7	29

The ages of the patients who died during the year under report are shown below :—

Period.	Male.	Female.	Total.
Under 20 years of age ...	...	...	...
Between 20 to 40 years of age ...	7	4	11
Between 40 to 60 years of age ...	13	1	14
60 years and upwards ...	2	2	4
Total ...	22	7	29

15. *Health of patients*.—The general health of patients has been good throughout the year under report except for about two months in the year when influenza broke out in mild epidemic form. The daily average number of sick treated in the infirmaries for bodily ailments was 57.62 males and 2.84 females total 60.46, as compared with 59.93 males 1.67 females total 61.60 in the previous year.

The important admissions in the infirmaries during the period under report are shown in the subjoined table :—

	Male.	Female.	Total.
Ankylostomiasis ...	16	5	21
Dysentery ...	6	1	7
*Malaria ...	71	14	85
Kala-azar ...	1	...	1
Influenza ...	314	26	340
Pneumonia ...	2	...	2
**T. B. Lungs ...	4	1	5
All other general diseases ...	38	7	45
Diseases of the eye ...	17	...	17
Diseases of the respiratory system ...	15	3	18
Diseases of the intestine ...	36	3	39
All other diseases of digestive system ...	37	3	40
Other diseases of generative system ...	3	...	3
Diseases of organs of locomotion ...	2	...	2
Inflammation ulcerative ...	33	3	36
Other diseases of the skin ...	36	...	36
Injury general or local ...	74	7	81
Nervous system diseases of which pathological basis is not known.	4	...	4
Nervous system diseases of which pathological basis is known.	4	...	4
Acute or chronic nephrities ...	1	...	1
Acute or suppurative inflammation of lymphatic glands.	1	...	1
All other diseases of urinary system ...	3	1	4
Diseases of the areolar tissue ...	37	4	41
Diseases of the circulatory system ...	...	1	1

*Out of 85 Malaria cases 19 were Bacteriologically positive and the rest clinically positive.

**Out of 5 Tuberculosis cases 4 were Bacteriologically positive and one clinically positive.

Approximately 9,347 cases were treated as outdoor patients for minor ailments such as ulcers, slight injuries, headaches, constipation, etc.

16. *Cases under observation.*—There were 25 patients (16 males and 9 females) under brief periods of observation in this hospital sent by the local Magistrates for the purpose of certification, as compared with 24 cases (19 males and 5 females) in 1930 and 27 cases (24 males and 3 females) in 1929. Out of 25 cases observed during the period under report 12 (3 males and 9 females) were certified and admitted. Four were discharged as uncertified, and 9 were certified as harmless insanes and were, therefore, not admitted owing to overcrowding in the male section. They were ultimately discharged by the committing Magistrates.

17. *Statement II.—Criminal patients.*—The following table shows the daily average strength of criminal patients during the year under report as well as in the previous years :—

Year.				Average number of cases.		
				Male.	Female.	Total.
1931	...	...	...	433.47	34.22	467.69
1930	...	...	...	450.63	34.13	484.76
1929	...	...	...	464.64	34.69	499.33
1928	...	...	...	528.05	40.53	568.58

In spite of 52 admissions of criminal patients during the year under report against 30 in 1930, the average number of criminal patients is less and the progressive decrease is due to the special endeavour made throughout the year under report as well as in the previous years to have the petty charges withdrawn by the committing Magistrates and thus quite a number of the so-called criminal patients were transferred to the non-criminal class after their admission to this hospital.

18. *Statement III* shows the religion, sex and residence of the patients admitted into the hospital during the year under report and is self-explanatory.

19. *Statement IV* shows the previous occupations of patients admitted during the year under report and needs no comment.

20. *Statement V* shows the ages of patients admitted into this hospital during the year under report. It will be evident

from the figures given below that the largest number of patients admitted every year was between the ages of 20 to 40. The ages between 40 to 60 claim the next place in order of frequency :—

Ages.			1931.	1930.	1929.	1928.
Under 20 years ...	...	...	12	7	8	6
Between 20 to 40 years	...	...	98	69	67	86
Between 40 to 60 years	...	...	21	19	16	18
Upwards of 60 ...	...	...	1	4	2	1

21. *Statement VI* shows the types of insanity of the patients admitted during the year under report. The following were the principal types treated :—

- (1) Manic depressive psychosis.
- (2) Dementia praecox.
- (3) Confusional insanity.
- (4) Toxic insanity.
- (5) Mental defectives.
- (6) Epileptic insanity.
- (7) Recurrent mania.
- (8) Senile dementia.
- (9) Secondary dementia.

22. *Statement VII* shows the aetiological factors and associated conditions in the patients admitted during the year under report.

As in the former years in few cases heredity, previous attacks of mental diseases, sudden and prolonged mental and physical stress, toxæmia and drugs, played an important role in the causation of insanity either as predisposing or exciting factors. Of the drugs, only alcohol and hemp specially *ganja*, were responsible as predisposing and exciting factors in 22 cases (vide *Statement VII*). In majority of cases no causes could be assigned due to practically no information being supplied by the police in the descriptive roll of the patients.

23. *Paying patients.*—During the year under report 86 patients (61 males and 25 females) were treated as compared with 79 (60 males and 19 females) in 1930 and 60 (48 males and 12 females) in 1929.

The number of paying patients is steadily increasing. During the year several applications from paying patients for accommodation had to be refused for want of accommodation in the male section.

24. *Suicide.*—I am glad to be able to record that there was no case of suicide during the year under report and the previous four years in spite of the fact that there are always more than 72 potential suicides in the suicidal wards of this hospital. During the year under review several attempts were made by some potential suicides to end their lives but their efforts were frustrated due to the strict vigilance of the attendant staff of the suicidal wards.

25. *Accidents and injuries.*—With the exception of one epileptic patient who died from fracture of skull due to a fall during an epileptic fit, there was no other case of serious accident or injury, although many minor cases of accidents and injuries such as falls, simple fractures, sprain of ankle joints, wrist joints and injury caused by foreign bodies, etc., were treated throughout the year under report.

26. *Escapes.*—There was no escape during the year under report and in the previous year although a fair amount of freedom is allowed to patients of this hospital which consists of a large number of convicts and other criminal patients.

27. *Autopsy.*—During the year under report 26 post-mortems were performed and interesting specimens were preserved in the hospital laboratory for the purpose of demonstration to students and others.

28. *Sanitation.*—The general sanitation of the whole area of the hospital was satisfactory. During the period under review the Assistant Director of Public Health, Chota Nagpur Circle, visited the hospital several times with a view to investigate the breeding area of malarial mosquitos and advise ways and means to eradicate the mosquito nuisance. Every effort has been made by the sanitary staff of this hospital under the direct supervision of the Second Assistant Superintendent to combat against the malarial mosquitos but the vastness of the breeding grounds all round the hospital area and Kanke render the task very difficult and gives one an idea that it is impossible

to eradicate totally the breeding places of these mosquitos. However, we are doing our best to keep the mosquito nuisance away from the hospital as much as possible.

The "Thresh disinfector" machine worked efficiently in disinfecting patients' clothing and bedding throughout the year under report.

29. *Treatment of mental conditions.*—(i) *Hydrotherapy.*—During the year under report 102 cases were given this treatment as against 69 in the previous year. The average number of hours of emersion per patient was 77·60.

It is a very active therapy department and is worked to its fullest capacity at all times. During the year under report 10 continuous baths have been in operation daily and were chiefly instrumental in allaying excitement and insomnia in highly excited and boisterous cases. There was a great rush on the baths during the year as we had 132 admissions and most of them were chronic refractory cases.

(ii) *Diet.*—Particular attention is paid to the dieting of the patient with the result that the majority of the patients gained in weight during the year under report.

Artificial feeding was resorted to 730 times during the year under report only in cases exhibiting active refusal to food.

(iii) *Occupational therapy.*—This form of therapy still remains here as the sheet anchor of our treatment. It was vigorously carried out throughout the year under report and patients of both sexes were employed in various occupational therapy departments.

A very brief outline of the work done in these departments is as follows:—

Weaving, cane and bamboo work, smithy, carpentry, tailoring, cobbling, mending clothes, mattress and pillow-making, lace-making, knittings, embroidery work, durrie-making, gardening, domestic and office work, joss-stick-making, etc.

All the articles manufactured are generally utilized by the hospital, in fact articles are manufactured with a view to make this large mental hospital partly self-supporting in its various demands, but again this is of secondary importance to the beneficial effect that the occupation itself has upon the mental condition of the patients. It is the policy of this hospital ever since its inception to make the occupational therapy departments, which serve as excellent Therapeutic agents, to be useful, both to the patients as well as to the State.

The percentage of patients to daily average strength usefully employed on various works of the hospital during the year under report was 67·35 males and 59·18 females.

(iv) *Drugs*.—(1) *Sulphur injections*.—A mention was made in the last year's report about this therapy. We tried sulphur injections (1 per cent. solution of sulphur in olive oil) on 100 cases of different types of mental diseases over a period of sixteen months. The temperature recorded at each injection was 103° to 104° and in some cases 105°. The average was 102°. The following table shows the results of our experimental study on 100 cases with sulphur injections:—

Number of patients.	Types of mental diseases.	Stationary or no improvement.	Improved.	Recovered.
37	Manic depressive psychosis	15	16	6
44	Dementia praecox ...	20	20	4
2	Paranoia and paranoid reactions.	1	...	1
2	Psycho-Neurosis ...	...	...	2
1	Dissiminated schlerosis ...	1	...	...
2	Encephalitis lethargica (Parkinsonian type).	2	...	...
4	Stupors ...	1	3	...
8	Epileptic insanity ...	8	...	...
Total ...		48	39	13 =100

It will be observed from the above table that 13 cases recovered and were discharged home as cured. Thirty-nine cases improved out of which 18 have since relapsed and 21 have still maintained the improvement. Forty-eight cases did not show any improvement. This shows that the results of our experiment were quite encouraging and the sulphur injections, in my opinion, are well worth a trial in all fresh admissions. It gives better results in early cases of psychosis as well as in psycho-neuroses, although its effect is not discouraging, even in chronic cases.

(2) *Bacteriophage*.—During the year under report dysentery cases were treated with bacteriophage. The treatment is still under trial. The phage was very kindly supplied by Captain C. Pasricha, I.M.S. of the School of Tropical Medicine and Hygiene, Calcutta, for experimental purposes.

(3) *Epilepsy and Snake Venene*.—During the year under review, we experimented on 2 epileptic patients with intramuscular injections of detoxicated venene from South Africa. This venene has a reputation for curing early as well as late cases of epilepsy and is specially prepared in South Africa, where they maintain a large snake farm for the purpose. The venene is expensive, a full course of treatment for one person cost Rs. 40 and the cost of two such courses was defrayed by a charitably disposed father of a well-to-do epileptic paying patient of this hospital to whom my best thanks are due for this gift. The results of our experiment will be fully stated in our next report as the treatment is still under trial.

(4) *Organotherapy*.—Many patients were treated with different glandular compounds during the year under review with indifferent results.

Anæmic patients were fed throughout the year under review on whole liver therapy with marked improvement. Raw liver from $\frac{1}{2}$ pound to 1 pound per day per patient was prescribed over a period of 6 months or more in highly anæmic cases with encouraging results. The minced raw liver is generally mixed with cooked food such as curries and is relished and digested by the patients.

(v) *Physiotherapy*.—(1) During the year under report physiotherapy was carried out as actively as before. The following number of specimens were examined by the hospital laboratory during the year :—

Blood	...	...	...	...	306
Urine	...	...	...	...	474
Stool	...	...	...	...	730

(2) *Syphilis*.—During the year under report 158 blood specimens were sent to the Prince of Wales' Medical College, Patna, for Wasserman test, of which 18 cases were positive and they were given anti-syphilitic treatment.

(3) *Teeth*.—During the year few paying patients requiring attention to their teeth were treated by the local dentist on payment of fees by their relatives. Necessary extraction of

teeth as well as attention to oral hygiene were carried out by the medical staff in cases of few non-paying patients.

(4) *Leprosy*.—During the year under report, we had to treat 3 bacteriologically and 3 clinically positive leper cases in the hospital. In the last Annual Report I had pointed out that to treat such leper cases in a mental hospital where there is no proper provision of special leper ward was obviously undesirable and had requested the Government of Bengal to reserve few beds for this hospital in the Albert Victor Leper Hospital, Gobra, where for years, I have transferred leper mental patients for treatment from Berhampore and Ranchi. I am now definitely informed by the Government of Bengal that in future no mental leper cases will be transferred to the Albert Victor Leper Hospital as there is no proper staff in that hospital for nursing and controlling insane patients. This matter is now under consideration.

30. *Sports and amusements*—(a) *Games*.—(i) Various outdoor games were played by a large number of patients and they were found to take more lively interest in the matter of outdoor games than before. Football, hockey, badminton and tennis were played by patients throughout the year and 5 hockey and 4 football matches were also played with outside teams.

(ii) Indoor games, such as chess, dice, cards, carrom, ludo, ping-pong were played every evening by the patients of both sexes in the amusement halls of their respective sections.

(iii) During the X'mas week the annual sports were held and hundreds of patients of both sexes took part in it and carried away many prizes. On the New Year's eve there was a display of fireworks which was immensely enjoyed by the patients.

(b) *Musical and other entertainments*.—As the chances of building a permanent amusement hall appear to be remote at present due to financial stringency, every effort was made during the year to make the present temporary amusement hall as attractive as possible. With this object in view alterations and improvements have been made by which this old Hall compares very favourably with any public amusement hall.

Patients were entertained throughout the year under review by the hospital band party and by the music master. Moreover, several musical soirees were got up by the combined efforts of the staff and patients.

During the year under review the following were engaged to entertain the patients :—

- (1) Physical feats by Allah Bux, on 9th January 1931.
- (2) Magic by Mr. N. K. Ghosh, on 9th January 1931.
- (3) Theatrical performances by staff, on 19th January, 10th March, 26th March and 28th August 1931.
- (4) Magic lantern, on 10th March 1931.
- (5) Variety performance by Prof. Mukerji, on 8th April 1931.
- (6) Magic by Mr. W. Vincent, on 27th May 1931.
- (7) Magic by D. D. Andre, 31st August 1931.
- (8) Jatra performances by Sricharan Bhandari Opera Company of Calcutta, on 23rd and 24th October 1931.
- (9) Variety performances by W. R. Denver and Company on 5th and 12th November 1931.
- (10) Egyptian dance by the Egyptian Dancing Troupe, on 19th November 1931.
- (11) Bhagbat Katha by Pandit Surju Dutt Shastri, on 7th and 8th December 1931.
- (12) Comic Caricature by Prof. N. C. Halder, on 23rd December 1931.

The music master also teaches those patients who are anxious to learn music. As in the former years frequent use is made of gramophones in the wards. Besides, the Radio Set is another source of amusement to the patients but the atmospheric disturbances do not allow us to enjoy the Radio throughout the year. The socials of this hospital were well patronised throughout the year by respectable ladies and gentlemen of Calcutta and Ranchi including non-official visitors of both sexes and some members of the managing committee of the hospital. I wish to express my appreciation on behalf of my patients to all the friends of the hospital for their genuine help and interest in the hospital socials as well as to all the staff concerned for their noble endeavour to make the lives of the unfortunate patients more pleasant by helping at the socials.

I am also highly indebted to my friend M. Tutu Ghose of Calcutta who during the Puja socials, on special request, entertained the patients with humorous sketches and dances.

Cinema.—I am happy to be able to record that the benign Government have at last on the recommendation of the managing committee sanctioned the purchase of a cinema machine during the year under report. Unfortunately the sanction came too late to make the purchase within the financial year. The Government was also pleased to sanction during the year under review the purchase of a frigidaire for the hospital and a machine was installed at a cost of Rs. 1,250. The frigidaire now partly supplies the ice and cold drinks to the patients during the hot weather and preserves our sera vaccines and other perishable food stuff throughout the year.

(c) *Feasts.*—As in the former years, special feasts were given on festive occasions such as Puja, Holi, X'mas, Id, etc.

(d) Religious sentiments of patients are respected and special arrangements are always made for due observance of their respective festivals. They are also allowed to go outside to attend prayers, pujahs, kirtans, etc., with the staff.

Attention to patients' religion.—Hindus.—More than 800 patients attended the Durga Puja which was celebrated with much pomp by the staff and public of Kanke outside the hospital.

Muhammadans.—On request of Muhammadan patients a small spare room was converted into a mosque for their prayers and a maulavi who happens to be on our staff conducts the usual Jumma and other prayers regularly.

Christian patients.—During the year under report arrangements were made on request from the Roman Catholic patients with the Rector of the Roman Catholic Mission, Ranchi, for holding regular divine service for the patients belonging to the Church of Rome which hitherto did not exist. My warmest thanks are due to the Rector for so kindly acceding to my request for holding divine service in this hospital.

My thanks are also due to the Chaplain of the Church of England, Rev. A. C. Chatterji, who held divine service throughout the year under report.

During X'mas elaborate arrangements were also made for special church service and the festivities of the season were enjoyed by a large number of patients including non-Christians.

(e) *Picnics.*—Hundreds of patients were taken out from time to time to the nearest hills, riversides, gardens, etc., with the hospital band for picnic. A few selected patients were also taken to a lunch picnic at the Hundru Falls.

(f) *Parole*.—Patients of both sexes enjoyed this privilege throughout the year under review. Local as well as Ranchi parole were granted to many dependable patients and the privilege was not at all abused by any patient. Sixty patients of both sexes go out daily for riverside and cross country walks, some with attendants and some without. Patients seem to enjoy this liberty and the effect on their health has been striking.

(g) *Motor drives*.—Patients of both sexes are regularly by turn sent out for motor drives both morning and evening in the hospital cars and are also allowed to shop at Ranchi.

(h) *Libraries*.—(i) *Patients' Library*.—A few more Bengali, Hindi, Urdu and Oriya books were purchased during the year under report. The library was popular with the patients throughout the year under report.

I am highly indebted to the proprietors of the following newspapers and magazines which were supplied free of cost for the use of the patients of this hospital throughout the year under report :—

- (1) *Statesman*.
- (2) *Amrita Bazar Patrika*.
- (3) *Searchlight*.
- (4) *Biswamitra* (vernacular).
- (5) *Basumati* (vernacular).
- (6) *Utkal Dipika* (vernacular).
- (7) *Illustrated Times of India*.
- (8) *Bharatbarsha* (monthly).
- (9) *Probasi* (monthly).

(ii) *Medical Library*.—A few important books on psychological and general medicines were added to the library during the year under report and the usual medical journals were also renewed.

31. *Maintenance of and repairs to buildings*.—All the buildings of the hospital were maintained in an efficient state of repairs by the Public Works Department.

32. *Hospital garden*.—The vegetable garden of this hospital, which is entirely run by the patients' labour, met the full requirement of vegetables (about 12 maunds a day) of the hospital throughout the year under report. The subjoined table

shows the total value of the garden produce during the year under report and the previous two years.

Income.

Details.	1931.	1930.	1929.
	Rs. a. p.	Rs. a. p.	Rs.
Supply of vegetables, fruits, onion, garlic, ginger, chillies, etc., to hospital.	21,721 13 9	20,605 9 5	25,092
Supply of fodder to the hospital.	470 4 0	318 4 0	457
Sale of surplus vegetables, etc., to the staff and public.	1,217 3 0	2,120 5 3	2,985
Total ...	23,409 4 9	23,044 2 8	28,534

Expenditure.

Pay of coolies, laying out cost, cost of manure, seeds, plants, implements, tools and miscellaneous articles.	4,105 12 0	6,672 2 9	6,902
---	------------	-----------	-------

The daily average number of patients employed in the vegetable garden was 200.

The construction of four wells in the vegetable garden for the purpose of irrigation, as reported last year, are now nearing completion.

33. *Finance.*—(a) *Receipts.*—The receipts from all sources amounted to Rs. 23,879 in 1931 as compared with Rs. 21,668 in 1930 and Rs. 20,066 in 1929.

The following table shows the total amount of realization from paying patients, and also miscellaneous receipts which include the sale-proceeds of articles manufactured by patients in the occupational therapy classes :

Heads.	1931.	1930.	1929.
	Rs.	Rs.	Rs.
Receipts from paying patients ...	21,704	18,274	16,029
Miscellaneous Receipts ...	2,174	3,394	4,036

The progressive increase in the receipt is due to the larger amount of fees realized from paying patients.

(b) *Expenditure*.—The total expenditure exclusive of amounts received from the paying patients and miscellaneous receipts was Rs. 5,16,898-5-9 during the year under report as compared with Rs. 5,70,175 in 1930 and Rs. 7,60,978 in 1929.

The progressive decrease in total expenditure is due to general trade depression which enabled us to purchase all articles at cheaper rates, less Public Works expenses as compared to 1929 and 1930 and enforcement of strictest economy in all departments of the hospital.

(c) *Annual average cost per patient*.—The following table shows the annual average cost per head during the year under report and two previous years :—

Years.	Annual cost per head inclusive of Public Works Department charges.			Annual cost per head exclusive of Public Works Department charges.		
	Rs.	a.	p.	Rs.	a.	p.
1931	410	6	9	372	12	0
1930	453	3	0	390	5	9
1929	605	5	3	418	7	4

The progressive decrease in the cost per head inclusive and exclusive of Public Works Department charges is due to the same causes as mentioned above in paragraph 32(b).

34. *Staff*.—Statement IX shows the sanctioned establishment of the hospital as it stood at the end of the year under report.

(i) *Attendant staff*.—The standard of work of the attendant staff is steadily improving every year and this is due to our steady efforts at weeding out the incompetents.

Nursing staff.—We experienced considerable difficulties during the year under report as well as in the previous years in securing the services of suitable nurses of any nationality to this hospital in spite of our advertising in almost all the leading newspapers of India.

The scheme for the matron and nurses, quarters, although administratively approved and considered as important, could not be taken up during the year owing to financial stringency.

(ii) *Training of medical, nursing and attendant staff.*—The medical and nursing staff of this hospital are allowed to attend by turn a full course of training with clinical demonstrations in psychological medicine which is given practically twice a year to the students of the Patna Medical College at Ranchi. These courses permit the staff to acquire a knowledge of the elementary principles in psychological medicine which helps them considerably in their work.

Similarly classes in first aid and elementary mental nursing are also held every year by the Senior Sub-Assistant Surgeon for the benefit of the new recruits of the attendant staff of the hospital.

The general health of the staff was good throughout the year under report.

35. *Commendation.*—I wish to express my sincere appreciation to all staff for their loyalty and co-operation throughout the year under report.

36. *The Committee of Visitors.*—Both ladies and gentlemen of the Board of Visitors took a keen interest in the welfare of the institution and worked throughout the year under review with commendable zeal.

My proposal of increasing the member of lady visitors from 6 to 12 was sanctioned by Government and six ladies including one lady doctor were accordingly appointed during the year under review.

37. *Managing Committee.*—Two meetings of the managing committee were held during the year under report.

38. *Donation Fund.*—My thanks are due to all the kind-hearted ladies and gentlemen who contributed small sums to the donation fund of this hospital. My warmest thanks are also extended to the following gentlemen for their respective contribution during the year under report:—

	Rs.
1. The Raja of Keonjhar	100
2. The Hon'ble Raja Raghunandan Prashad Singh of Monghyr.	50
3. Sir R. N. Mukherji, Kt., K.C.I.E., K.C.V.O. ...	50

39. The hospital was visited by the following during the year under report :—

1. The Hon'ble Sir J. D. Sifton, K.C.S.I., K.C.I.E., I.C.S., as member of the Executive Council, Bihar and Orissa.
2. The Commissioner, Chota Nagpur Division.
3. The Inspector-General of Civil Hospitals, Bihar and Orissa.
4. The Inspector-General of Prisons, Bengal.
5. The Inspector-General of Prisons, Bihar and Orissa.
6. The members of the Managing Committee.
7. Several members of the Bihar and Orissa Legislative Council.
8. Dr. Charles P. Emerson, M.D., Commissioner Laymen's Foreign Mission Inquiry, 1 Pershing Square, New York, U. S. A.

Besides, numerous sympathisers of both sexes, European and Indian.

40. During the year under report in 24 cases admission papers were found to be defective in some respect or other which were subsequently rectified by correspondence with the committing Magistrates. The matter was brought to the notice of the Inspector-General of Civil Hospitals, Bihar and Orissa.

41. *Lectures.*—During the year under report in addition to the two batches of medical students from the Prince of Wales' Medical College, Patna, a batch consisting of 13 passed students of the Darbhanga and Cuttack Medical Schools were sent here for intensive training in mental diseases under the Superintendent.

42. *Papers contributed.*—A paper was contributed by me during the period under report to the *Lancet*, which was published in the journal of 26th December 1931 entitled " Sulphur Injections in Psychoses ".

Another paper was also contributed to the *Journal of Mental Science* which appeared in the journal in its issue of January 1931, entitled " Dementia Præcox, its Aetiology with special reference to the Parsees of India ".

J. E. DHUNJIBHOY, MAJOR, I.M.S.,
Superintendent, Indian Mental Hospital, Kanke (Ranchi).

STATEMENT I.

STATEMENT

Showing the admissions, discharges, etc., of patients in the Ranchi Indian

1			2			3			4			5		
Years.			Remained on 1st January.			Admitted.			Re-admitted.			Total population.		
			Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.
1931	...	...	1,034	222	1,256	91	31	122	6	4	10	1,131	257	1,388
1930	...	...	1,049	215	1,264	62	36	98	1	...	1	1,112	251	1,363
1929	...	...	1,065	209	1,274	59	27	86	(a) 5	2	7	1,129	238	1,367

(a) Includes one recaptured.

1			7			8			9			10		
Year.			Died.			Remaining on 31st December.			Daily average strength.			Daily average sick.		
			Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.
1931	...	...	22	7	29	1,045	227	1,272	1033.34	226.07	1259.41	57.62	2.84	60.46
1930	...	...	21	5	26	1,034	222	1,256	1040.05	218.08	1258.13	59.93	1.67	61.60
1929	...	...	20	5	25	1,049	215	1,264	1048.31	208.81	1257.12	53.95	3.47	57.42

This statement excludes

The capacity of the Ranchi Indian Mental Hospital is at 50 superficial feet per patient,

The maximum number of lunatics confined on any one night was

I.

Mental Hospital, Kanke, during the year 1931, and the two previous years.

6														
Discharged.														
A			B						C			D		
Cured.			Transferred to friends.						Otherwise.			Total.		
			Improved.			Not improved.								
Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.
43	14	57	13	7	20	7	2	9	1	...	1	64	23	87
41	19	60	9	4	13	5	1	6	2	...	2	57	24	81
34	15	49	10	1	11	14	2	16	2	...	(b) 2	60	18	78

(b) Two male patients escaped but one was recaptured since.

11												
Percentage to—												
Daily average strength.						Admissions.						
A			B			C			D			
Cured.			Died.			Cured.			Died.			
Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Total.
4.16	6.19	4.53	2.03	3.10	2.30	13.40	17.14	14.39	3.09	5.71	3.79	
3.94	8.71	4.69	2.02	2.29	2.07	23.49	22.22	24.24	3.17	2.78	3.03	
3.24	7.18	3.89	1.91	2.39	1.99	16.94	22.22	18.60	3.39	7.41	4.65	

observation cases.
1,014 for males, 272 for females—Total 1,286.
1,051 males, 229 females—Total 1,280.

STATEMENT IA.

Showing cases admitted for observation in the Ranchi Indian Mental Hospital during the year 1931.

Name of Hospital.	Year.	Remaining on 1st January 1931.			Admitted during 1931.			Re-admitted.			Certified and admitted to the Hospital.			Certified and released under section 14 of Act IV of 1912.			Released as uncertified.			Died.			Remaining on 31st December 1931.			Remarks.
		M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	
	1931	...	...	...	15	7	22	1	2	3	3	9	12	...	...	...	13	0	13	...	...	...	...	...	...	*4 male patients were discharged as uncertified. 9 male patients were certified to be non-violent insanes, but were not admitted for want of accommodation and were released by the committing Magistrates.

STATEMENT II.

Return of criminal patients in the Ranchi Indian Mental Hospital for the year 1931, and the two previous years.

Years.	2		3		4		5		6		7		8		9								
	Remaining on 1st January.		Adm. tted.		Re-admitted.		Tctal.		Discharged, trans-ferred, etc.		Died.		Remaining on 31st December.		Daily average strength.								
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.							
1831	445	34	44	4	48	3	1	4	492	39	531	42	5	(a) 47	9	1	10	441	33	474	433.47	34.22	467.69
1930	463	36	27	3	30	...	...	...	490	33	523	35	4	(b) 39	10	1	11	445	34	479	450.63	34.13	484.76
1929	479	34	28	4	32	*	4	4	511	38	549	41	1	(c) 42	7	1	8	463	36	499	464.64	34.69	499.33

* Includes one recaptured.

(a) 21 male and 1 female patients were transferred to the non-criminal class.

(b) 18 male and 1 female patients were transferred to the non-criminal class.

(c) 23 male patients were transferred to the non-criminal class.

2 male patients escaped, 1 recaptured since.

STATEMENT III.

Return showing the religion, sex and residence of patients admitted into the Ranchi Indian Mental Hospital during the year 1931.

1	2	3	4	5	6				
District.	Hindus.	Muhammadans.	Christians.			Other castes.	Total.		
			Europeans and Eurasians.		Indians.				
			Males.	Females.				Total.	
									Males.	Females.	Total.
Afghanistan	1	...	...	1	...	...	1
Angul	1
Bankura	2
Benares	1
Bhagalpur	1
Birbhum	2
Burdwan	1
Calcutta	17
Chittagong	5
Champaran	1
Dacca	3

[illegible]

STATEMENT III--concl.

District.	1			2			3			4			5			6		
	Hindus.			Muhammadans.			Christians.			Other castes.			Total.			Total.		
	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.
Shahabad ...	2	...	2	2	...	2	...	...	...	...	...	...	...	...	...	4	...	4
Singhbhum ...	...	...	...	...	...	...	1	...	1	...	...	...	...	...	...	1	...	1
Tippera ...	...	...	...	1	...	1	...	...	...	...	...	...	...	...	...	1	...	1
Unknown ...	4	2	6	2	1	3	...	...	...	1	3	3	...	...	...	7	5	12
24-Parganas ...	2	1	3	...	...	...	...	...	...	...	...	...	...	...	...	2	1	3
Total 1931	59	18	77	29	4	33	4	10	14	5	3	8	97	35	132			
Total 1930	43	16	59	16	4	20	3	12	15	1	4	5	63	36	99			
Total 1929	36	16	52	25	5	30	1	5	6	2	3	5	64	29	93			

STATEMENT IV.

Return showing the previous occupation of patients admitted into the Ranchi Indian Mental Hospital during the year 1931 and the two previous years.

Serial no.	Occupation of patients.	1931.			1930.			1929.		
		Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.
1.	2	3	4	5	6	7	8	9	10	11
1	Allopathic practitioner.	...	...	...	1	...	1	...	...	...
2	Ayah	...	...	...	...	1	1	...	1	1
3	Beggar	1	1	2	1	...	1	4	...	4
4	Blacksmith	2	...	2	...	...	...	...	...	...
5	Boatman	1	...	1	...	...	...	...	...	...
6	Businessman	3	...	3	1	...	1	..	...	...
7	Carpenter	1	...	1	...	...	...	3	...	3
8	Chaprasi	1	...	1	2	...	2	...	...	...
9	Chemist	1	..	1	...	..	...	...	..	...
10	Clerk	...	...	...	2	...	2	4	...	4
11	Cloth dealer	...	...	...	...	...	...	1	...	1
12	Contractor	...	...	...	1	...	1	...	...	...
13	Constable	1	...	1	...	...	...	2	...	2
14	Cook	1	...	1	1	...	1	...	...	...
15	Cooly	7	...	7	7	2	9	6	6	12
16	Cultivator	21	...	21	12	...	12	13	1	14
17	Dependant	...	4	4	...	...	...	...	6	6
18	Daftary	...	...	...	...	...	...	1	...	1
19	Dhai	...	1	1	...	...	...	...	...	...
20	Fakir	...	...	...	1	..	1	...	...	...
21	Fisherman and woman.	1	...	1	...	...	...	...	...	...

STATEMENT IV—*contd.*

Serial no.	Occupation of patients.	1931.			1930.			1929.		
		Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.
1	2	3	4	5	6	7	8	9	10	11
22	Housewife ...	...	1	1	...	6	6	...	...	...
23	Landholder ...	1	...	1	...	...	...	2	...	2
24	Mason ...	1	...	1	...	...	...	...	...	...
25	Mill hand ...	1	...	1	1	..	1	...	...	...
26	Mistry ...	...	...	...	...	...	...	2	...	2
27	Merchant ...	1	...	1	...	...	...	...	...	...
28	Musician ...	2	...	2	...	...	...	...	...	...
29	No occupation ...	5	12	17	6	10	16	5	3	8
30	Nurse ...	...	1	1	...	1	1	...	1	1
31	Pot repairer ...	...	...	...	...	...	...	1	...	1
32	Prostitute ...	...	...	...	...	...	...	...	2	2
33	Pleader ...	2	...	2	1	...	1	...	...	...
34	Schoolmaster ...	...	...	...	...	...	...	1	...	1
35	Sanyasi ...	1	...	1	...	...	...	...	...	...
36	Servant and maid servant.	1	...	1	4	1	5	...	2	2
37	Shopkeeper ...	...	...	...	...	1	1	2	...	2
38	Student ...	8	2	10	4	...	4	4	1	5
39	Sweetmeat seller ...	...	...	...	...	...	...	1	..	1
40	Service ...	6	...	6	9	...	9	1	...	1
41	Sepoy ...	...	...	...	...	...	...	2	...	2
42	Tailor ...	...	...	...	...	...	...	1	...	1
43	Teacher ...	1	3	4	1	3	4	...	...	...
44	Tobacco dealer ...	...	...	...	1	...	1	...	..	...
45	Tahsildar ...	...	...	...	...	...	...	1	...	1
46	Unknown ...	22	10	32	6	10	16	5	5	10

STASEMENT IV—*concl'd.*

Serial no.	Occupation of patients.	1931.			1930.			1929.		
		Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.
1	2	3	4	5	6	7	8	9	10	11
47	Vagabond ...	2	..	2	1	...	1	2	...	2
48	Vegetable seller	...	...	..	...	1	1	...	1	1
49	Washerman ...	1	...	1	...	...	...	...	...	...
50	Weaver ...	1	...	1	...	...	...	...	...	...
	Total ...	97	35	132	63	36	99	64	29	93

STATEMENT V.

Return showing the Ages of Patients admitted into the Ranchi Indian Mental Hospital, during the year 1931, and the two previous years.

1	2	3	4	5	6
Year.	Under 20.		20 to 40.		Total.
	Males.	Females.	Total.	Total.	
Males.	Females.	Total.	Males.	Females.	Total.
Males.	Females.	Total.	Males.	Females.	Total.
Males.	Females.	Total.	Males.	Females.	Total.
Males.	Females.	Total.	Males.	Females.	Total.
Males.	Females.	Total.	Males.	Females.	Total.
Males.	Females.	Total.	Males.	Females.	Total.
Males.	Females.	Total.	Males.	Females.	Total.
Males.	Females.	Total.	Males.	Females.	Total.
Males.	Females.	Total.	Males.	Females.	Total.
Males.	Females.	Total.	Males.	Females.	Total.
Males.	Females.	Total.	Males.	Females.	Total.
Males.	Females.	Total.	Males.	Females.	Total.
Males.	Females.	Total.	Males.	Females.	Total.
Males.	Females.	Total.	Males.	Females.	Total.
Males.	Females.	Total.	Males.	Females.	Total.
Males.	Females.	Total.	Males.	Females.	Total.
Males.	Females.	Total.	Males.	Females.	Total.
Males.	Females.	Total.	Males.	Females.	Total.
Males.	Females.	Total.	Males.	Females.	Total.
Males.	Females.	Total.	Males.	Females.	Total.
Males.	Females.	Total.	Males.	Females.	Total.
Males.	Females.	Total.	Males.	Females.	Total.
Males.	Females.	Total.	Males.	Females.	Total.
Males.	Females.	Total.	Males.	Females.	Total.
Males.	Females.	Total.	Males.	Females.	Total.
Males.	Females.	Total.	Males.	Females.	Total.
Males.	Females.	Total.	Males.	Females.	Total.
Males.	Females.	Total.	Males.	Females.	Total.
Males.	Females.	Total.	Males.	Females.	Total.
Males.	Females.	Total.	Males.	Females.	Total.
Males.	Females.	Total.	Males.	Females.	Total.
Males.	Females.	Total.	Males.	Females.	Total.
Males.	Females.	Total.	Males.	Females.	Total.
Males.	Females.	Total.	Males.	Females.	Total.
Males.	Females.	Total.	Males.	Females.	Total.

STATEMENT VI.

Showing the types of insanity of the patients in the Ranchi Indian

1				2			3																				
				I.—Errors of development.			Mania (Acute, Intermittent, chronic) associated with—																				
Class.				Idiocy.			Imbecility.			Pregnancy.			Parturition and Lactation (puer peral).			Epilepsy.			Old age.			Other forms.					
				M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
Remaining on 31st December of the precoding year				...	8	3	11	29	7	38	3	3	47	2	49	17	1	18	89	42	131			
Admitted during the year				1	1	2	2	4	1	1	3	...	3	1	...	1	31	16	47			
Total treated				...	8	4	12	31	9	40	4	4	50	2	52	18	1	19	120	58	178			
Discharged	...	Recovered	...	...	...	...	...	...	...	...	...	...	1	1	2	...	2	...	...	...	18	10	28
		Improved	...	...	...	2	...	2	...	...	...	...	...	...	...	...	...	...	...	...	4	...	4
		Not improved	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1
		Otherwise	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1
Escaped						
Died				...	...	...	...	2	...	2	...	...	...	...	2	...	2	...	...	...	4	2	6
Remaining on 31st December 1931				8	4	12	27	9	36	3	3	46	2	48	18	1	19	97	41	138		

NOTE.—Observation cases are

MENT VI.

Mental Hospital during the year 1931.

4															5			6			7			7A											
II.—Disorder of functions.																																			
Melancholia (Acute, Intermittent, chronic).															Circular insanity, alternating insanity.			Stupor,						Delusional insanity (acute or chronic) Peranoia.			Encephalitis Lethargica.								
Agitated.			Stuporous.			Hypochondriacal.			Associated with pregnancy.			Associated with parturition and lactation (puerperal).						Associated with old age.			Other forms.									Anergic.			Delusional.		
M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T			
4	...		4	5	1	6	2	...	2	...	1	1	...	6	6	2	3	5	122	17	139	66	15	81	10	...	10	83	12	95	1	...
...	6	2	8	...	1	1	...	...	...	...	...	...	1	...	1	...	...
4	...		4	5	1	6	2	...	2	...	1	1	...	6	6	2	3	5	128	19	147	66	16	82	10	...	10	84	12	96	1	...
...	2	...	2	...	...	...	...	...	...	...	...	...	...	...	...	1	3	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...
...	
...	
...	
...	
...	
4	...		4	3	1	4	2	...	2	...	1	1	...	6	6	2	3	5	126	16	142	66	16	82	10	...	10	82	11	95	1	..

Showing the types of insanity of the patients in the Ranchi Indian

				8	9	10	11	12	13																		
				III.—Insanity of infective, toxic and																							
Class.				Acute delirium.			Insanity associated with acute infective diseases.			Confusional insanity.			Syphilitic insanity.			General paralysis of the insane.			Dementia from local cerebral syphilis.			Insanity due to alcohol.			Insanity due to Cannabis Indica or its preparations or derivatives.		
				M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
Remaining on 31st December of the preceding year				...	5	1	6	...	...	...	7	8	15	...	...	...	...	...	...	20	6	26	102	...	...	102	
Admitted during the year				...	...	...	...	...	...	...	20	5	25	...	...	...	...	...	1	1	3	...	3	5	...	...	5
Total treated				...	5	1	6	...	...	...	27	13	40	...	...	...	...	...	1	1	23	6	29	107	...	...	107
Discharged	{	Recovered	...	...	...	...	...	...	...	...	5	...	5	...	...	...	...	...	2	...	2	1	...	...	...	1	
		Improved	...	...	...	...	...	...	...	...	2	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...
		Not improved	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Otherwise	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Escaped				...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Died				...	...	...	...	...	...	...	1	1	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Remaining on 31st December 1931				...	5	1	6	...	...	...	19	12	31	...	...	...	...	...	1	1	21	6	27	106	...	...	106

NOTE.—Observation cases are

MENT VI—concl'd.

Mental Hospital during the year 1931.

14			15			16												17			18					
other general conditions.																										
Insanity from other causes.			Dementia Praecox.			Dementia (primary or secondary).												Declared to have recovered or not yet diagnosed.			TOTAL.					
						Secondary or Terminal Dementia.			From organic cerebral diseases other than syphilitic.			From arterial disease; Senile.			From epilepsy.									From injury.		
M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T			
28	1	29	184	53	237	93	23	116	2	...	2	4	6	10	8	1	9	...	...	...	96	10	106	1,034	222	1,256
4	2	6	12	3	15	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	9	1	10	97	35	132
32	3	35	196	56	252	93	23	116	2	...	2	4	6	10	8	1	9	...	...	...	105	11	116	1,131	257	1,388
3	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	9	...	9	43	14	57
1	...	1	8	3	11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	13	7	20
...	...	...	5	...	5	2	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	7	2	9
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1
...
...	...	...	6	2	8	3	1	4	...	...	...	...	1	1	1	...	1	...	...	...	...	...	...	22	7	29
28	3	31	177	51	228	88	22	110	2	...	2	4	5	9	7	1	8	...	...	...	96	11	107	1,045	227	1,272

excluded from this statement.

STATEMENT VII.

Showing Ætiological factors and associated conditions in the patients admitted in the Ranchi Indian Mental Hospital during the year 1931.

Ætiological factors and associated conditions.		Predisposing Cause.			Exciting Cause.			Total.			Percentage of patients to total admissions.
		Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	
1		2	3	4	5	6	7	8	9	10	10(a)
A. HEREDITY—											
1. Insane	...	23	4	27	...	...	...	23	4	27	
2. Epileptic	...	...	...	...	...	...	...	...	...	...
3. Neurotic	...	...	...	...	...	...	...	...	...	...
4. Marked eccentricity	...	...	...	...	...	...	...	...	...	...
5. Alcoholism	...	2	...	2	1	...	1	3	...	3	
Total	...	25	4	29	1	...	1	26	4	30	
B. MENTAL INSTABILITY, AS REVEALED BY—											
1. Moral deficiency	...	...	...	...	...	...	...	...	...	...
2. Congenital mental defect	...	2	2	4	...	...	...	2	2	4	
3. Eccentricity	...	1	1	2	...	...	...	1	1	2	
4. Previous attack	...	5	5	10	...	...	...	5	5	10	
Total	...	8	8	16	...	...	...	8	8	16	
C. DEPRIVATION OF SPECIAL SENSES—											
1. Smell or taste	...	...	...	...	...	...	...	...	...	...
2. Hearing	...	...	...	...	...	...	...	...	...	...
3. Sight	...	...	...	...	...	...	...	...	...	...
Total	...	...	...	...	...	...	...	...	...	...
D. CRITICAL PERIODS—											
1. Puberty and adolescence	...	...	1	1	1	3	4	1	4	5	
2. Climacteric	...	...	...	...	...	1	1	...	1	1	
3. Senility	...	1	...	1	...	...	...	1	...	1	
Total	...	1	1	2	1	4	5	2	5	7	
Carried over	...	34	13	47	2	4	6	36	17	53	

STATEMENT VII—*contd.*

Showing Ætiological factors and associated conditions in the patients admitted in the Ranchi Indian Mental Hospital during the year 1931
—*contd.*

Ætiological factors and associated conditions.			Predisposing Cause.			Exciting Cause.			Total.			Percentage of patients to total admissions.
			Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	
1			2	3	4	5	6	7	8	9	10	10 (a)
Brought forward	...	...	34	13	47	2	4	6	36	17	53	
E. CHILD-BEARING—												
1. Pregnancy	...	...	...	...	...	...	...	...	...	...	...
2. Puerperal	...	...	...	...	...	...	1	1	...	1	1	
3. Lactation	...	...	...	...	...	...	...	...	...	...	...
Total	...	...	...	...	...	...	1	1	...	1	1	
F. MENTAL STRESS—												
1. Sudden	...	...	1	...	1	16	3	19	17	3	20	
2. Prolonged	...	...	2	...	2	6	...	6	8	...	8	
Total	...	...	3	...	3	22	3	25	25	3	28	
G. PHYSIOLOGICAL DEFECTS AND ERRORS.												
1. Malnutrition (in early life)	...	...	...	...	...	...	...	...	...	...	...
2. Privation and starvation	...	...	4	...	4	1	1	2	5	1	6	
3. Over-exertion (physical)	...	...	...	...	...	...	1	1	...	1	1	
4. Sexual excess	...	...	...	...	...	...	...	...	...	...	...
Total	...	...	4	...	4	1	2	3	5	2	7	
H. TOXIC—												
1. Alcohol...	...	...	5	...	5	1	2	3	6	2	8	
2. Opium and morphia	...	...	...	...	...	...	...	...	...	...	...
3. Cocaine	...	...	...	...	...	...	...	...	...	...	...
4. Ganja, charas or bhang	...	...	6	...	6	8	...	8	14	...	14	
5. Fever	...	...	...	...	...	4	2	6	4	2	6	
Carried over (total up to G.)	...	...	41	13	54	25	10	35	66	23	89	

STATEMENT VII—*contd.*

Showing Ætiological factors and associated conditions in the patients admitted in the Ranchi Indian Mental Hospital during the year 1931—*contd.*

Ætiological factors and associated conditions.	Predisposing Cause.			Exciting Cause.			Total.			Percentage of patients to total admissions.
	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	
1	2	3	4	5	6	7	8	9	10	10(a)
Brought forward (total up to G) ...	41	13	54	25	10	35	66	23	89	
H. Toxic—<i>concl.</i>										
6. Tuberculosis ...	...	...	...	...	...	...	...	...	...
7. Syphilis acquired ...	2	...	2	...	...	...	2	...	2	
„ congenital ...	...	...	...	...	...	...	...	...	...
8. Plague ...	...	...	...	...	...	...	...	...	...
9. Other toxins ...	1	...	1	2	...	2	3	...	3	
Total ...	14	...	14	15	4	19	29	4	33	
I. TRAUMATIC—										
1. Injuries ...	...	...	...	...	...	...	...	...	...
2. Operations ...	...	...	...	...	...	...	...	...	...
3. Sanstroke... ..	...	...	...	...	...	...	...	...	...
Total ...	...	...	...	...	...	...	...	...	...
J. DISEASES OF THE NERVOUS SYSTEM—										
1. Lesions of brain ...	...	...	...	...	...	...	...	...	...
2. „ of spinal cord and nerves	...	...	...	...	...	...	...	...	...
3. Epilepsy ...	3	...	3	...	...	...	3	...	3	
4. Other defined neuroses	...	...	...	...	...	...	...	...	...
Total ...	3	...	3	...	...	...	3	...	3	
Carried over ...	58	13	71	40	14	54	98	27	125	

STATEMENT VII—*concl'd.*

Showing Ætiological factors and associated conditions in the patients admitted in the Ranchi Indian Mental Hospital during the year 1931—*concl'd.*

Ætiological factors and associated conditions.	Predisposing Cause.			Exciting Cause.			Total.			Percentage of patients to total admissions.
	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	
1	2	3	4	5	6	7	8	9	10	10(a)
Brought forward ...	58	13	71	40	14	54	98	27	125	
K. OTHER BODILY AFFLICTIONS—										
1. Hæmopoietic system ...	...	...	...	...	...	...	...	...	...
2. Cardio-vascular degeneration ...	...	...	...	...	...	...	...	...	...
3. Valvular heart disease ...	...	...	...	...	...	...	...	...	...
4. Gastro-intestinal system ...	...	...	...	...	...	...	...	...	...
5. Renal and vesical system ...	...	...	...	...	...	...	...	...	...
6. Generative system (excluding syphilis).	...	...	...	...	...	...	...	...	...
7. Other general affection (e.g., diabetes).	...	...	...	...	...	...	...	...	...
Total ...	...	...	...	...	...	...	...	...	...
L. NO CAUSE ASSIGNABLE ...	...	...	...	...	...	...	...	...	...
M. NO CAUSE ASCERTAINED—History...	53	21	74	60	22	82	113	43	156	
Grand Total ...	111	84	145	100	36	136	211	70	281	

NOTE—

M. F. T.

In 32 12 44 cases there were both predisposing and exciting causes.

,, 8 2 10 cases there were more than one predisposing and exciting causes.

,, 53 21 74 cases of whom no cause could be ascertained.

,, 4 0 4 cases were sane (no signs of insanity being detected).

 97 35 132 patients admitted during 1931.

STATEMENT

Showing the Cash Account of the Indian Mental Hospital,

1				2	3	4	5
Name of Asylum.				Receipts.			
				Received from Treasury.	Received from paying patients.	Value of stores received from the Manufacturing Department less cost of raw materials.	Book receipts, i.e., the total of expenditure entered in columns 16, 20 and 21.
				Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
Indian Mental Hospital, Kanke (Banchi).	1931	...	...	4,41,674 10 6	21,704 6 0	22,531 9 1	52,692 2 2
	1930	...	...	4,66,832 2 2	18,274 0 0	19,629 0 9	83,714 1 8
	1929	...	...	4,65,970 12 9	16,029 7 6	24,344 14 1	2,40,662 12 3

1				13	14	15	16	17	18
Name of Asylum.				Charges—contd.					
				Contingencies.			Remitted to Treasury on account of paying patients, etc.	Miscellaneous items.	Total of columns 8—17.
				Contingencies proper.	Repairs and maintenance.	Rates and taxes.			
				Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
Indian Mental Hospital, Kanke (Banchi).	1931	...	...	78,906 1 1	...	2,420 0 0	21,704 6 0	2,174 12 6	4,88,085 6 1
	1930	...	...	78,969 12 2	...	252 0 0	18,274 0 0	3,394 6 6	5,08,129 9 5
	1929	...	...	88,451 4 3	...	2,180 4 0	16,029 7 6	4,036 10 6	5,40,381 13 10

VIII.

Kanke (Ranchi), for the year 1931, and the two previous years.

6	7	8	9	10	11	12
Charges.						
Miscellaneous receipts.	Total.	Establishment.		Diet.	Clothing and bedding.	Bazar medicines.
		Establishment proper.	Superintendence.			
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
2,174 12 6	5,40,777 8 3	1,47,600 15 0	27,930 12 0	1,77,173 4 6	28,060 4 6	2,114 14 6
3,394 6 6	5,91,843 11 1	1,47,102 2 0	21,139 7 0	1,99,275 8 3	39,099 6 3	622 15 3
4,036 10 6	7,81,044 9 1	1,45,326 3 0	21,911 3 0	2,17,802 4 9	43,850 3 10	694 4 0

19	20	21	22	23
----	----	----	----	----

Book charges.			Total of columns 18—21.	Remarks.
Charges on account of work done by the Public Works Department.	Cost of printed forms and stationery.	Cost of English stores, medicines, etc.		
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	
47,413 12 0	867 4 2	4,381 2 0	5,40,777 8 3	
79,047 0 11	1,010 5 9	3,656 11 0	5,91,843 11 1	
2,34,916 15 4	594 2 11	5,151 10 0	7,81,044 9 1	

STATEMENT IX.

Showing the sanctioned establishment of the Indian Mental Hospital as it stood on the 31st December 1931.

Establishment.	Number.	Monthly wages.
1	2	3
		Rs.
Superintendent	1	1,650
First Assistant Superintendent	1	500
Second Assistant Superintendent	1	300
Steward	1	325
Matron	1	266
Male Sub-Assistant Surgeons 2 at Rs. 155, 1 at Rs. 125 and 1 at Rs. 115.	4	550
Female Sub-Assistant Surgeon	1	170
Male Compounders at Rs. 45	3	135
Female Compounder	1	54
Nurses at Rs. 151, Rs. 146 and 2 at Rs. 136...	4	569
Head Clerk	1	130
Accountant	1	170
Cashier	1	64
Second Clerk	1	68
General Clerk	1	46
Reference Clerk and Record-keeper	1	49
Typist at Rs. 46 and Rs. 36	2	82
Head Store-keeper	1	70
Assistant Store-keepers at Rs. 60 and Rs. 50	2	110
Weaving Instructor	1	55
Assistant Weaving Instructor	1	32
Basket-maker	1	34
Blacksmith	1	30
Fireman for Thresh Disinfector	1	26
Motor drivers at Rs. 80 and 60	2	140
Motor cleaners at Rs. 21	2	42
Daftary	1	20
Darwans 3 at Rs. 16 and 7 at Rs. 15	10	153
Office peon 1 at Rs. 16 and 2 at Rs. 15	3	46
Office orderlies 1 at Rs. 16 and 1 at Rs. 15	2	31
Garden Overseer	1	110
Garden Jamadar	1	30
Head Jamadar	1	45
Jamadar at Rs. 30	17	510
1st grade male attendants at Rs. 24	43	1,032

STATEMENT IX—*concl'd.*

Establishment.		Number.	Monthly wages.
1		2	3
		Rs.	
2nd grade male attendants at Rs. 21	...	100	2,100
3rd grade male attendants at Rs. 18	...	171	3,078
Head Jamadarin	...	1	45
Jamadarins at Rs. 30	...	5	150
1st grade female attendants at Rs. 24	...	12	288
2nd grade female attendants at Rs. 21	...	22	462
3rd grade female attendants at Rs. 18	...	49	882
CONTINGENT MENIALS.			
2 cooks at Rs. 30 and 8 at Rs. 20	...	10	220
Barbers at Rs. 18	...	8	144
Carpenters at Rs. 30	...	2	60
Mali 1 at Rs. 25 and 2 at Rs. 18	...	3	61
Store coolies 2 at Rs. 15 and 2 at Rs. 14	...	4	58
Tailors at Rs. 30 and Rs. 25	...	2	55
Sweeper Jamadars at Rs. 16	...	6	96
Sweepers at Rs. 14	...	95	1,330
Cart drivers at Rs. 14	...	5	70
Trench diggers at Rs. 14	...	4	56
Sweeper Jamadarins at Rs. 16	...	2	32
Sweepresses at Rs. 14	...	23	322
GARDEN SCHEME.			
Mali	...	1	32
Garden coolies at Rs. 15	...	10	150
Total	...	652	17,335
Daily average number of males	...	1033.34	...
„ „ females	...	226.07	...
Grand Total	...	1259.41	...

Proportion of	{ Jamadars to males	...	1 : 57.41
	{ Jamadarins to females	...	1 : 37.68
	{ Male keepers to males	...	1 : 3.29
	{ Female keepers to females	...	1 : 2.72

STATEMENT

Showing Receipts and Expenditure on account of manufactures in the previous

Name of Asylum.			Mean population.			Cash paid into Treasury for articles sold.
			Males.	Females.	Total.	
1			2			3
						Rs. a. p.
Indian Mental Hospital, Kanke (Ranchi).	1931	...	1033'34	226'07	1259'41	1,424 8 0
	1930	...	1040'05	218'08	1258'13	2,181 1 3
	1929	...	1048'31	208'81	1257'12	3,037 15 6

Name of Asylum.			Debits—contd.			
			Value of raw materials in store on 1st January.	Value of plant and machinery in store on 1st January.	Raw materials purchased.	Contingencies of manufacture.
1			10	11	12	13
			Rs. a. p.	Rs. a. p.	Rs. a. p.	
Indian Mental Hospital, Kanke (Ranchi).	1931	...	3,284 13 4	30,483 14 10	12,926 11 0	...
	1930	...	5,352 13 9	30,716 0 5	8,767 8 0	...
	1929	...	4,642 3 2	31,328 11 7	11,395 9 0	...

X.

Ranchi Indian Mental Hospital, Kanke, during the year 1931 and the two years.

Credits.					Debits.
Value of manu- factured goods made over to Asylum for Asylum purposes.	Value of raw materials in store at the end of the year.	Value of manufactured goods in store at the end of the year.	Value of plant and machinery in store at the end of the year.	Total credits.	Value of manufactured goods in store on 1st January.
4	5	6	7	8	9
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
32,146 5 0	6,644 2 2	11,601 9 9	27,653 12 0	79,470 5 9	9,349 11 3
30,464 9 2	3,284 13 4	9,349 11 3	30,463 14 10	75,764 1 10	4,296 12 0
35,029 12 6	5,352 13 9	4,296 12 0	30,716 0 5	78,433 6 2	4,290 2 0

		Results.		Remarks.		
All other charges.	Total debits.	Excess of credits or profits.	Excess of debits or loss.	Average number employed.		
				Male.	Female.	Total.
14	15	16	17	18		
Rs. a. p.	Rs. a. p.	Rs. a. p.				
47 5 9	56,092 8 2	23,377 13 7	...	225	40	265
54 15 9	49,183 1 11	26,575 15 11	...	246	38	284
73 0 3	51,729 10 0	26,703 12 2	...	254	36	290

Abstract of Cash Account of the Indian Mental Hospital, Kanke (Ranchi),

Years.	Establishment.		Diet.	
	Total cost.	Cost per head of average strength.	Total cost.	Cost per head of average strength.
1	2	3	4	5
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
1931 ...	1,75,531 11 0	139 6 0	1,77,173 4 6	140 10 10
1930 ...	1,63,241 9 0	133 11 7	1,99,275 8 3	158 6 3
1929 ...	1,67,237 6 0	133 0 6	2,17,802 4 9	173 4 1

Years.	Miscellaneous.		Grand Total.		Charges on account of works done by the Public Works Department.	
	Total cost.	Cost per head of average strength.	Total cost.	Cost per head of average strength.	Total cost.	Cost per head of average strength.
1	12	13	14	15	16	17
			Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
1931	4,66,167 5 7	370 2 4	47,443 12 0	37 10 9
1930	4,89,865 13 11	389 5 9	79,047 0 11	62 13 3
1929	5,23,187 0 10	416 2 10	2,34,916 15 4	186 13 11

MENT A.

for the year 1931 and the two previous years.

Bedding and clothing.		Medicines.		Contingencies.	
Total cost.	Cost per head of average strength.	Total cost.	Cost per head of average strength.	Total cost.	Cost per head of average strength.
6	7	8	9	10	11
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
28,060 4 6	22 4 6	6,496 0 6	5 2 6	78,906 1 1	62 10 6
39,099 6 3	31 1 3	4,279 10 3	3 6 5	78,969 12 2	62 12 3
43,850 3 10	34 14 1	5,485 14 0	4 10 5	88,451 4 3	70 5 9

Rates and Taxes.		Cost of printing and stationery.		Total expenditure including all heads of expenditure.	
Total cost.	Cost per head of average strength.	Total cost.	Cost per head of average strength.	Total cost.	Cost per head of average strength.
18	19	20	21	22	23
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
2,420 0 0	1 14 8	867 4 2	0 11 0	5,16,898 5 9	410 6 9
252 0 0	0 3 2	1,010 5 9	0 12 10	5,70,175 4 7	453 3 0
2,280 4 0	1 13 0	594 2 11	0 7 6	7,60,978 7 1	605 5

STATEMENT B.

Statement showing the number of paying patients treated in the Indian Mental Hospital at Kanke (Ranchi) during the year 1931, and the two previous years.

Year.	Remaining on 1st January.			Admitted.			Readmitted.			Total treated.			Discharged and transferred.			Died.			Remaining on the 31st December.			Daily average strength.			Remarks.
	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	
1931	44	15	59	15	7	22	2	3	5	61	25	86	11	4	15	2	1	3	48	20	68	46.00	16.11	62.11	
1930	41	10	51	18	9	27	1	...	1	60	19	79	15	4	19	1	...	1	44	15	59	40.54	13.30	53.84	
1929	38	7	45	8	4	12	2	1	3	45	12	60	5	2	7	2	...	2	41	10	51	39.88	7.57	47.45	

J. E. DHUNJIBHOY, MAJOR, I.M.S.,
 Superintendent,
 Indian Mental Hospital,
 Kanke (Ranchi).

The 17th August 1932.

